**IT Applications, Unit 4**

**Ch 6, Developing a solution using spreadsheet software, p 192-195**

Case Study: Point Pleasant Social Service Program – organisational outline and current practice

Read the case study:

1 Complete the think about IT, 6-3 activity:

1. Which current practices at Point Pleasant High School have led to inaccurate information?

A common cause of inaccurate information is human error. At Point Pleasant High School Mr Greene’s current system of storing and manually adding the totals of the money raised has led to inaccurate information.

1. What types of validation errors might occur using the current information processing methods?

Some validation errors that could occur with the current processing method are:

* Range- there is no way to set a limit for the numbers that can be entered.
* Spelling and grammar- human error when spelling the names of the charities or the year levels could lead to errors when it comes to the end result.
* Also there is nothing to stop data being entered in the wrong areas.

Analysing the problem

1. in the analysis stage there are three parts, elaborate under each of the following:
   1. define the problem

The problem that Point Pleasant High School suffers from is error during the entry and calculation of the data.

* 1. solution requirements
     1. what is the difference between functional and non-functional attributes

Functional attributes are what the solution must be able to do whereas non-functional attributes are things like user-friendliness, readability, portability, robustness and maintainability.

* 1. constraints
     1. list the constraints

The constraints that can affect a solution are:

* cost
* speed of processing
* requirements of users
* legal requirements
* security
* compatibility
* level of expertise
* capacity
* availability of equipment
  1. scope of solution
     1. Describe the scope or the extent of the solution.

The scope or extent of the solution refers to the boundaries or parameters that describe what the solution will and will not be able to do, as well as the benefits for the user (benefits are stated in terms of efficiency and effectiveness).

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